



SEQUENCE LISTING

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<120> Thérapeutic use of LPI, a staphylococcal lectin pathway inhibitor  
in inflammatory diseases

<130> L/2BD29/2

<140> PCT/EP2004/007606  
<141> 2004-08-07

<150> EP 03 077 138.0  
<151> 2003-07-08

<160> 20

<170> PatentIn version 3.2

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<211> 510  
<212> DNA  
<213> Staphylococcus aureus

<220>  
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<223> Figure 2a, LPI gene of NCTC 8325

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gtactaatta ctaaggagaa taaaaaatga aaattagaaa atctatactt gcgggaactt 120  
tagcaatcgt ttttagcatca ccactagtaa ctaatctaga taaaaatgag gcacaagcta 180  
gcacaagctt gccaacatcg aatgaatatc aaaacgaaaa gttagctaatt gaattaaaat 240  
cgttattaga tgaactaaat gttaatgaat tagctactgg aagtttaaac acttattata 300  
agcgaactat aaaaatttca ggtcaaaaag caatgtatgc tcttaagtca aaagacttta 360  
agaaaatgtc agaagcaaaa tatcaacttc aaaagattta taacgaaatt gacgaagcac 420  
taaaaagtaa atattaaaaa aaccacccgt aaaagggtgg ttttaatttt ctagataata 480  
taaaagtgtt cataaataaa acagtatagg 510

<210> 2  
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 <223> Figure 2a, LPI gene of N315

<400> 2  
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 tagcaatcgt tttagcatca ccactagtaa ctaatctaga taaaaatgag gcacaagcta 180  
 gcacaagctt gccaacatcg aatgaatatc aaaacgaaaa gttagctaata gaattaaaat 240  
 cggtattaga tgaactaaat gttaatgaat tagctactgg aagtttaaac acttattata 300  
 agcgaactat aaaaatttca ggtctaaaag caatgtatgc tcttaagtca aaagacttta 360  
 agaaaatgtc agaagcaaaa tatcaacttc aaaagattta taacgaaatt gacgaagcac 420  
 taaaaagtaa atattaaaaa aaccacccgt aaaagggtgg ttttaatttt ctagataata 480  
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 <223> Figure 3, LPI protein of NCTC 8325

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 Ala Ser Pro Leu Val Thr Asn Leu Asp Lys Asn Glu Ala Gln Ala Ser  
 20 25 30  
 Thr Ser Leu Pro Thr Ser Asn Glu Tyr Gln Asn Glu Lys Leu Ala Asn  
 35 40 45  
 Glu Leu Lys Ser Leu Leu Asp Glu Leu Asn Val Asn Glu Leu Ala Thr  
 50 55 60  
 Gly Ser Leu Asn Thr Tyr Tyr Lys Arg Thr Ile Lys Ile Ser Gly Gln  
 65 70 75 80

Lys Ala Met Tyr Ala Leu Lys Ser Lys Asp Phe Lys Lys Met Ser Glu  
85 90 95

Ala Lys Tyr Gln Leu Gln Lys Ile Tyr Asn Glu Ile Asp Glu Ala Leu  
100 105 110

Lys Ser Lys Tyr  
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<223> Figure 3, LPI protein of N315  
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Met Lys Ile Arg Lys Ser Ile Leu Ala Gly Thr Leu Ala Ile Val Leu  
1 5 10 15

Ala Ser Pro Leu Val Thr Asn Leu Asp Lys Asn Glu Ala Gln Ala Ser  
20 25 30

Thr Ser Leu Pro Thr Ser Asn Glu Tyr Gln Asn Glu Lys Leu Ala Asn  
35 40 45

Glu Leu Lys Ser Leu Leu Asp Glu Leu Asn Val Asn Glu Leu Ala Thr  
50 55 60

Gly Ser Leu Asn Thr Tyr Tyr Lys Arg Thr Ile Lys Ile Ser Gly Leu  
65 70 75 80

Lys Ala Met Tyr Ala Leu Lys Ser Lys Asp Phe Lys Lys Met Ser Glu  
85 90 95

Ala Lys Tyr Gln Leu Gln Lys Ile Tyr Asn Glu Ile Asp Glu Ala Leu  
100 105 110

Lys Ser Lys Tyr  
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 <223> Figure 3, LPI-B

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 1 5 10 15

Ser Ser Thr Gly Ile Ala Thr Ile Glu Gly Asn Lys Ala Asp Ala Ser  
 20 25 30

Ser Leu Asp Lys Tyr Leu Thr Glu Ser Gln Phe His Asp Lys Arg Ile  
 35 40 45

Ala Glu Glu Leu Arg Thr Leu Leu Asn Lys Ser Asn Val Tyr Ala Leu  
 50 55 60

Ala Ala Gly Ser Leu Asn Pro Tyr Tyr Lys Arg Thr Ile Met Met Asn  
 65 70 75 80

Glu Tyr Arg Ala Lys Ala Ala Leu Lys Lys Asn Asp Phe Val Ser Met  
 85 90 95

Ala Asp Ala Lys Val Ala Leu Glu Lys Ile Tyr Lys Glu Ile Asp Glu  
 100 105 110

Ile Ile Asn Arg  
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 <223> Figure 3, LPI-C

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                     20                      25                      30  
 Ser Lys Lys Asp Tyr Ile Ile Gln Ser Glu Phe His Asp Lys Arg Ile  
                     35                      40                      45  
 Ala Glu Glu Leu Lys Ser Leu Leu Asp Gln Ser Tyr Val Asn Asp Leu  
                     50                      55                      60  
 Ala Ala Gly Ser Leu Asn Pro Tyr Tyr Lys Arg Met Ile Met Met Asn  
 65                      70                      75                      80  
 Gln Tyr Arg Ala Lys Ala Ala Leu Lys Ser Asn Asn Phe Ala Lys Met  
                     85                      90                      95  
 Ala Glu Ala Lys Val Gly Leu Glu Asn Ile Tyr Lys Glu Ile Asp Glu  
                     100                      105                      110  
 Ile Ile Asn Arg  
                     115

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 <223> Figure 3, LPI-D protein of NCTC 8325  
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 Ala Ala Leu Leu Asp Thr Thr Gly Ile Lys Leu Ala Ser Lys Ser Glu  
                     20                      25                      30  
 Thr Thr Ser His Thr Tyr Gln His Gln Ala Leu Val Asp Gln Leu His  
                     35                      40                      45  
 Glu Leu Ile Ala Asn Thr Asp Leu Asn Lys Leu Ser Tyr Leu Asn Leu  
                     50                      55                      60

Asp Ala Phe Gln Lys Arg Asp Ile Leu Ala Ala His Tyr Ile Ala Lys  
65 70 75 80

Ser Ala Ile Arg Thr Lys Asn Leu Asp Gln Met Thr Lys Ala Lys Gln  
85 90 95

Arg Leu Glu Ser Ile Tyr Asn Ser Ile Ser Asn Pro Leu His Ser Gln  
100 105 110

Asn Asn

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<223> Figure 3, LPI-D protein of N315

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Met Thr Thr Gln Met Lys Ile Lys Thr Tyr Leu Val Ala Gly Ile Lys  
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Ala Ala Leu Leu Asp Thr Thr Gly Ile Lys Leu Ala Ser Lys Ser Glu  
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Thr Thr Ser His Thr Tyr Gln His Gln Ala Leu Val Asp Gln Leu His  
35 40 45

Glu Leu Ile Ala Asn Thr Asp Leu Asn Lys Leu Ser Tyr Leu Asn Leu  
50 55 60

Asp Ala Phe Gln Lys Arg Asp Ile Leu Ala Ala His Tyr Ile Ala Lys  
65 70 75 80

Ser Ala Ile Arg Thr Lys Asn Leu Asp Gln Met Thr Lys Ala Lys His  
85 90 95

Arg Leu Glu Ser Ile Tyr Asp Ser Ile Ser Asn Pro Leu His Ser Gln  
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Asn Asn

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tattttaactg aaagtcagtt tcatgataaa cgcatagcag aagaattaag aactttactt 180  
aacaaatcga atgtatatgc attagctgca ggaagcttaa atccatatta taaacgtacg 240  
attatgatga atgaatatag agctaaagcg gcacttaaga aaaatgattt cgtatcaatg 300  
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taat 364

<210> 10  
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<223> Figure 2b, LPI-C gene

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tatataattc aaagtgagtt tcatgataaa cgaattgctg aagaattgaa atcattactt 180  
gatcaatctt atgtaaatga tttagctgca ggaagcttaa acccatacta caaacgtatg 240  
attatgatga accaatatag agcaaaagca gcactaaaaa gtaataattt cgcaaaaatg 300  
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 <223> Figure 2b, LPI-D gene of NCTC 8325

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 agcggcgctc cttgatacga ctggtattaa attagcaagc aaatctgaaa ctacatcaca 120  
 tacgtatcaa catcaagcgc ttgtagatca attaccatgaa ttaatagcaa aactgactt 180  
 aaataaatta tcgtacctaa atttagatgc gtttcaaaaa cgcgatattt tagctgcgca 240  
 ctatattgca aaatccgcta tacgcactaa aaatttggat caaatgacta aagcgaaaca 300  
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 <223> Figure 2b, LPI-D gene of N315

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 tacgtatcaa catcaagcgc ttgtagatca attaccatgaa ttaatagcaa aactgactt 180  
 aaataaatta tcgtacctaa atttagatgc gtttcaaaaa cgcgatattt tagctgcgca 240  
 ctatattgca aaatccgcta tacgcactaa aaatttggat caaatgacta aagcgaaaca 300  
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 attca 365

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